

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Canceled.

2. (Previously Presented) A cell adhesion modulating agent that:

(a) comprises at least five consecutive amino acid residues of a claudin CAR sequence, said claudin CAR sequence being present in a naturally occurring claudin and having the formula:

Trp-Lys/Arg-Aaa-Baa-Ser/Ala-Tyr/Phe-Caa-Gly (SEQ ID NO:1)

wherein Aaa, Baa and Caa indicate amino acid residues; Lys/Arg is an amino acid that is lysine or arginine; Ser/Ala is an amino acid that is serine or alanine; and Tyr/Phe is an amino acid that is tyrosine or phenylalanine; and

(b) contains no more than 50 consecutive amino acid residues.

3. (Previously Presented) A cell adhesion modulating agent that:

(a) comprises at least seven consecutive amino acid residues of a claudin CAR sequence, said claudin CAR sequence being present in a naturally occurring claudin and having the formula:

Trp-Lys/Arg-Aaa-Baa-Ser/Ala-Tyr/Phe-Caa-Gly (SEQ ID NO:1)

wherein Aaa, Baa and Caa indicate amino acid residues; Lys/Arg is an amino acid that is lysine or arginine; Ser/Ala is an amino acid that is serine or alanine; and Tyr/Phe is an amino acid that is tyrosine or phenylalanine; and

(b) contains no more than 50 consecutive amino acid residues.

4. (Previously Presented) A cell adhesion modulating agent that:

(a) comprises at least eight consecutive amino acid residues of a claudin CAR sequence, said claudin CAR sequence being present in a naturally occurring claudin and having the formula:

Trp-Lys/Arg-Aaa-Baa-Ser/Ala-Tyr/Phe-Caa-Gly (SEQ ID NO:1)

wherein Aaa, Baa and Caa indicate amino acid residues; Lys/Arg is an amino acid that is lysine or arginine; Ser/Ala is an amino acid that is serine or alanine; and Tyr/Phe is an amino acid that is tyrosine or phenylalanine; and

(b) contains no more than 50 consecutive amino acid residues.

5. (Previously Presented) A modulating agent according to any one of claims 2-4 wherein the agent is a peptide ranging in size from 5 to 50 amino acid residues.

6. (Previously Presented) A modulating agent according to any one of claims 2-4, wherein the agent is a peptide ranging in size from 5 to 16 amino acid residues.

7.-26. Canceled

27. (Previously Presented) A modulating agent according to any one of claims 2-4 linked to a drug.

28. (Previously Presented) A modulating agent according to any one of claims 2-4 linked to a detectable marker.

29. (Previously Presented) A modulating agent according to any one of claims 2-4 linked to a targeting agent.

30. (Previously Presented) A modulating agent according to any one of claims 2-4 linked to a support material.

31. (Original) A modulating agent according to claim 30, wherein the support material is a polymeric matrix.

32. (Original) A modulating agent according to claim 30, wherein the support material is selected from the group consisting of plastic dishes, plastic tubes, sutures, membranes, ultra thin films, bioreactors and microparticles.

33.-34. Canceled

35. (Previously Presented) A pharmaceutical composition comprising a cell adhesion modulating agent according to any one of claims 3-4, in combination with a pharmaceutically acceptable carrier.

36. (Original) A composition according to claim 35, further comprising a drug.

37. (Original) A composition according to claim 35, wherein the cell adhesion modulating agent is present within a sustained-release formulation.

38.-63. Canceled.